

PENDING CLAIMS AS AMENDED

Please amend the claims as follows:

1-11. (Canceled)

12. (Previously Presented) A method of scheduling measurement for cells in a plurality of wireless communication systems, comprising:

categorizing cells in a first wireless communication system based on a plurality of states including an *Unknown* state, a *Known Confirmed* state, and a *Known Unconfirmed* state, the *Unknown* state including cells in the first system for which timing information and cell identification are not known, the *Known Confirmed* state including cells in the first system for which timing information is known and cell identification has been confirmed within last T seconds, where T is a predetermined time period, and the *Known Unconfirmed* state including cells in the first system for which timing information is known and cell identification has not been confirmed within last T seconds;

prioritizing the plurality of states;

prioritizing cells in a second wireless communication system relative to the plurality of states;

selecting a cell in the first system of the second system based on priorities of the cells in the first and second systems; and

scheduling the selected cell for measurement in next available frame.

13. (Original) The method of claim 12, wherein timing information for a cell in the first system is obtained by detecting a frequency correction channel (FCCH) and cell identification is obtained by decoding a synchronization channel (SCH).

14. (Original) The method of claim 12, wherein cells with the *Known Confirmed* state are not scheduled for measurement.

15. (Original) The method of claim 12, wherein cells with the *Known Unconfirmed* state are given higher priority than cells with the *Unknown* state.

16. (Original) The method of claim 12, wherein the plurality of states further include a *Strong SCH Unknown* state and an *SCH Unknown* state, the *Strong SCH Unknown* state including cells in the first system for which timing information is known and cell identification is not known and which are among M strongest received cells in the first system, where M is a number greater than one, and the *SCH Unknown* state including cells in the first system for which timing information is known and cell identification is not known and which are not among the M strongest received cells in the first system.

17. (Original) The method of claim 16, wherein the cells with the *Strong SCH Unknown* state are given first priority, the cells with the *SCH Unknown* state are given second priority, the cells with the *Known Unconfirmed* state are given third priority, and the cells with the *Unknown* state are given fourth priority among the cells in the first system.

18. (Original) The method of claim 17, wherein the cells in the second system are given higher priority than the cells with the *Known Unconfirmed* state and lower priority than the cells with the *SCH Unknown* state.

19. (Original) The method of claim 12, wherein the plurality of states further include a *Strong FCCH Unknown* state and an *FCCH Unknown* state, the *Strong FCCH Unknown* state including cells in the first system for which timing information and cell identification are not known and which are among M strongest received cells in the first system, where M is a number greater than one, and the *FCCH Unknown* state including cells in the first system for which timing information and cell identification are not known and which are not among the M strongest received cells in the first system.

20. (Original) The method of claim 19, wherein cells with the *Strong FCCH Unknown* state and cells with the *FCCH Unknown* state transition to the *Unknown* state after X failed attempt to acquire timing information, where X is one or greater.

21-26. (Canceled)

27. (Original) The method of claim 12, further comprising:
arranging cells with the *Unknown* state into a first group of A strongest received cells and a second group of cells, where A is a number greater than one, and wherein the A cells in the first group are selected prior to selecting a cell in the second group.

28. (Original) The method of claim 27, wherein the second group includes B next strongest received cells with the *Unknown* state, where B is a number greater than one, wherein a third group includes remaining cells with the *Unknown* state, and wherein the B cells in the second group are selected prior to selecting a cell in the third group.

29-32. (Canceled)

33. (Previously Presented) An apparatus operable to schedule measurement for cells in a plurality of wireless communication systems, comprising:
a controller operative to categorize cells in a first wireless communication system based on a plurality of states, to prioritize the plurality of states, to prioritize cells in a second wireless communication system relative to the plurality of states, to select a cell in the first system or the second system based on priorities of the cells in the first and second systems, and to schedule the selected cell for measurement in next available frame, wherein the plurality of states comprise a first state for cells in the first system for which timing information and cell identification are not known, a second state for cells in the first system for which timing information is known and cell identification has been confirmed within last T seconds, where T is a predetermined time period, and a third state for cells in the first system for which timing information is known and cell identification has not been confirmed within last T seconds; and

a demodulator operative to make measurement for the selected cell in the next available frame.

34. (Previously Presented) The apparatus of claim 33, wherein the controller is operative to obtain timing information for a cell in the first system by detecting a frequency correction channel (FCCH) and to obtain cell identification by decoding a synchronization channel (SCH).

35. (Previously Presented) The apparatus of claim 33, wherein the controller is operative to not schedule cells with the second state for measurement.

36. (Previously Presented) The apparatus of claim 33, wherein the controller is operative to give higher priority to cells with the third state than cells with the first state.

37. (New) An apparatus operable to schedule measurement for cells in a plurality of wireless communication systems, comprising:

means for categorizing cells in a first wireless communication system based on a plurality of states including a first state, a second state, and a third state, the first state including cells in the first system for which timing information and cell identification are not known, the second state including cells in the first system for which timing information is known and cell identification has been confirmed within last T seconds, where T is a predetermined time period, and the third state including cells in the first system for which timing information is known and cell identification has not been confirmed within last T seconds;

means for prioritizing the plurality of states;

means for prioritizing cells in a second wireless communication system relative to the plurality of states;

means for selecting a cell in the first system of the second system based on priorities of the cells in the first and second systems; and

means for scheduling the selected cell for measurement in next available frame.

38. (New) The apparatus of claim 37, further comprising:

means for obtaining timing information for a cell in the first system by detecting a frequency correction channel (FCCH); and

means for obtaining cell identification by decoding a synchronization channel (SCH).

39. (New) The apparatus of claim 37, wherein cells with the second state are not scheduled for measurement.

40. (New) The apparatus of claim 37, wherein cells with the third state are given higher priority than cells with the first state.

41. (New) A computer program product, comprising:

a computer-readable medium, comprising:

code for categorizing cells in a first wireless communication system based on a plurality of states including a first state, a second state, and a third state, the first state including cells in the first system for which timing information and cell identification are not known, the second state including cells in the first system for which timing information is known and cell identification has been confirmed within last T seconds, where T is a predetermined time period, and the third state including cells in the first system for which timing information is known and cell identification has not been confirmed within last T seconds;

code for prioritizing the plurality of states;

code for prioritizing cells in a second wireless communication system relative to the plurality of states;

code for selecting a cell in the first system of the second system based on priorities of the cells in the first and second systems; and

code for scheduling the selected cell for measurement in next available frame.

42. (New) The computer program product of claim 41, wherein the computer-readable medium further comprises:

code for obtaining timing information for a cell in the first system by detecting a frequency correction channel (FCCH); and

code for obtaining cell identification by decoding a synchronization channel (SCH).

43. (New) The computer program product of claim 41, wherein cells with the second state are not scheduled for measurement.

44. (New) The computer program product of claim 41, wherein cells with the third state are given higher priority than cells with the first state.